

**AMENDMENTS TO THE CLAIMS**

Please amend the claims as indicated hereafter.

1-2. (Cancelled)

3. (Currently Amended) ~~The transient pre-emptor of claim 1,~~ A transient pre-emptor comprising a processor configured to determine that there is a periodic transient in a digital subscriber line (DSL) communications system, wherein responsive to the processor determining that there is a periodic transient, the processor causes a data communications equipment to reduce a data transmission rate from an original rate to a lower rate, wherein the processor is further configured to measure the length of time between consecutive transients.

4. (Original) The transient pre-emptor of claim 3, wherein the processor is further configured to determine the cadence of transients.

5. (Original) The transient pre-emptor of claim 3, wherein the processor is further configured to revise a cadence estimate for transients.

6-16. (Cancelled)

17. (Currently Amended) ~~The method of claim 16, further comprising the step of:~~ A method for reducing transmission errors in a digital subscriber line (DSL) communications system comprising:

determining that there is a periodic transient in the DSL communications system;  
responsive to determining that there is a periodic transient, causing a data  
communications equipment to reduce its transmission rate from an original  
rate to a lower rate; and  
causing the data communications equipment to restore its data transmission rate to the original rate after a predetermined period of time.

18. (Currently Amended) ~~The method of claim 16, further comprising the step of:~~ A method for reducing transmission errors in a digital subscriber line (DSL) communications system comprising:

determining that there is a periodic transient in the DSL communications system;  
responsive to determining that there is a periodic transient, causing a data  
communications equipment to reduce its transmission rate from an original  
rate to a lower rate; and  
causing the data communications equipment to restore its data transmission rate to the original rate after failing to detect a transient for a predetermined period of time.

19. (Currently Amended) ~~The method of claim 16, further comprising the step of:~~ A method for reducing transmission errors in a digital subscriber line (DSL) communications system comprising:

determining that there is a periodic transient in the DSL communications system;  
responsive to determining that there is a periodic transient, causing a data  
communications equipment to reduce its transmission rate from an original  
rate to a lower rate; and  
measuring the length of time between consecutive transients.

20. (Original) The method of claim 19, further comprising the step of determining the cadence of transients.

21. (Original) The method of claim 19, further comprising the step of revising a cadence estimate for transients.

22-26. (Cancelled)


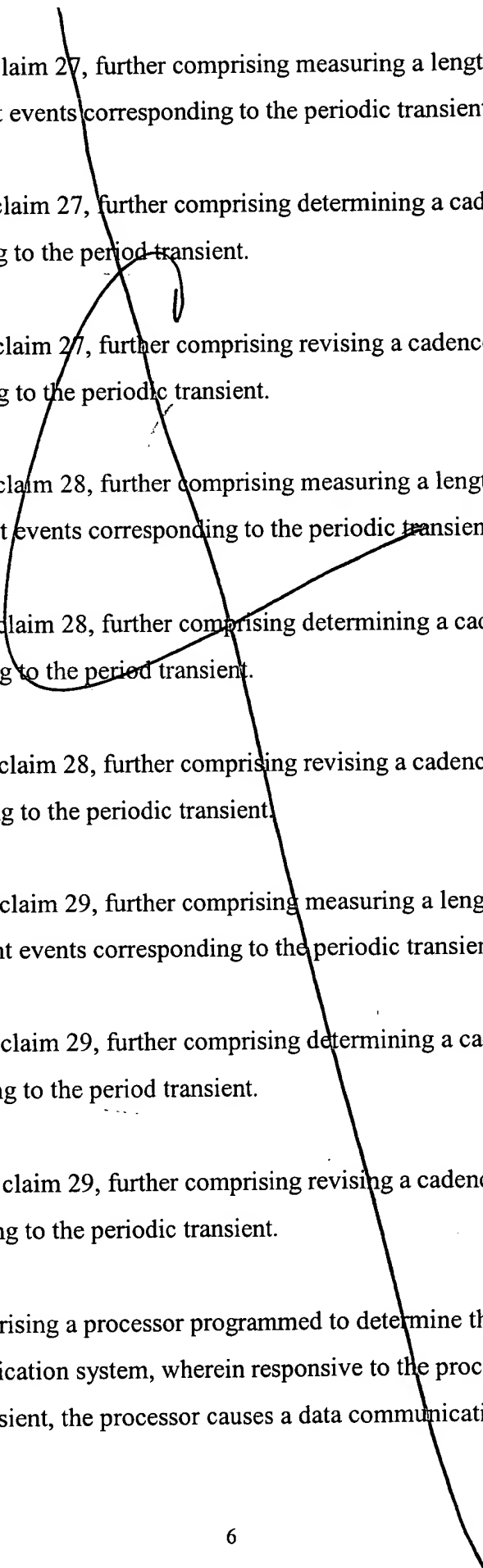
27. (Currently Amended) ~~The method of claim 25, further comprising the step of:~~ A method for reducing transmission errors in a digital subscriber line (DSL) communications system comprising:

determining that there is a periodic transient in the DSL communications system;  
responsive to determining that there is a periodic transient, causing a data  
communications equipment to suspend data transmission; and  
after the occurrence of a subsequent transient, causing the data communications equipment to resume data transmission.

28. (Currently Amended) ~~The method of claim 25, further comprising the step of:~~ A method for reducing transmission errors in a digital subscriber line (DSL) communications system comprising:

determining that there is a periodic transient in the DSL communications system;  
responsive to determining that there is a periodic transient, causing a data  
communications equipment to suspend data transmission; and  
after the lapse of a predetermined length of time, causing the data communications equipment to resume data transmission.

29. (Currently Amended) ~~The method of claim 25, further comprising the step of:~~ A method for reducing transmission errors in a digital subscriber line (DSL) communications system comprising:  
determining that there is a periodic transient in the DSL communications system;  
responsive to determining that there is a periodic transient, causing a data  
communications equipment to suspend data transmission; and  
after failing to detect a transient for a predetermined length of time, causing the data communications equipment to resume data transmission.
- 30-33. (Cancelled)
34. (New) The method of claim 17, further comprising measuring a length of time between consecutive transient events corresponding to the periodic transient.
35. (New) The method of claim 17, further comprising determining a cadence of transient events corresponding to the period transient
36. (New) The method of claim 17, further comprising revising a cadence estimate for transient events corresponding to the periodic transient.
37. (New) The method of claim 18, further comprising measuring a length of time between consecutive transient events corresponding to the periodic transient.
38. (New) The method of claim 18, further comprising determining a cadence of transient events corresponding to the period transient.
39. (New) The method of claim 18, further comprising revising a cadence estimate for transient events corresponding to the periodic transient.

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40. (New) The method of claim 27, further comprising measuring a length of time between consecutive transient events corresponding to the periodic transient.
41. (New) The method of claim 27, further comprising determining a cadence of transient events corresponding to the period transient.
42. (New) The method of claim 27, further comprising revising a cadence estimate for transient events corresponding to the periodic transient.
43. (New) The method of claim 28, further comprising measuring a length of time between consecutive transient events corresponding to the periodic transient.
44. (New) The method of claim 28, further comprising determining a cadence of transient events corresponding to the period transient.
45. (New) The method of claim 28, further comprising revising a cadence estimate for transient events corresponding to the periodic transient.
46. (New) The method of claim 29, further comprising measuring a length of time between consecutive transient events corresponding to the periodic transient.
47. (New) The method of claim 29, further comprising determining a cadence of transient events corresponding to the period transient.
48. (New) The method of claim 29, further comprising revising a cadence estimate for transient events corresponding to the periodic transient.
49. (New) A system comprising a processor programmed to determine that there is a periodic transient in a communication system, wherein responsive to the processor determining that there is a periodic transient, the processor causes a data communications equipment to

reduce a data transmission rate from an original rate to a lower rate, wherein the processor is further programmed to measure a length of time between consecutive transients.

50. (New) The system of claim 49, wherein the processor is further programmed to determine a cadence of transients.
51. (New) The system of claim 50, wherein the processor is further programmed to revise a cadence estimate for transients.
52. (New) A method for reducing transmission errors in a communication system comprising:  
determining that there is a periodic transient in the communication system;  
responsive to determining that there is a periodic transient, causing a data communications equipment to reduce its transmission rate from an original rate to a lower rate; and  
causing the data communications equipment to restore its data transmission rate to the original rate after a predetermined period of time.
53. (New) The method of claim 52, further comprising measuring a length of time between consecutive transient events corresponding to the periodic transient.
54. (New) The method of claim 52, further comprising determining a cadence of transient events corresponding to the periodic transient.
55. (New) The method of claim 54, further comprising revising a cadence estimate for transient events corresponding to the periodic transient.
56. (New) A method for reducing transmission errors in a communication system comprising:  
determining that there is a periodic transient in the communication system;

responsive to determining that there is a periodic transient, causing a data communications equipment to reduce its transmission rate from an original rate to a lower rate; and  
causing the data communications equipment to restore its data transmission rate to the original rate after failing to detect a transient for a predetermined period of time.

57. (New) The method of claim 56, further comprising measuring a length of time between consecutive transient events corresponding to the periodic transient.
58. (New) The method of claim 56, further comprising determining a cadence of transient events corresponding to the period transient.
59. (New) The method of claim 58, further comprising revising a cadence estimate for transient events corresponding to the periodic transient.
60. (New) A method for reducing transmission errors in a communication system comprising:  
determining that there is a periodic transient in the communication system;  
responsive to determining that there is a periodic transient, causing a data communications equipment to reduce its transmission rate from an original rate to a lower rate; and  
measuring the length of time between consecutive transients.
61. (New) The method of claim 60, further comprising the step of determining the cadence of transients.
62. (New) The method of claim 61, further comprising the step of revising a cadence estimate for transients.

63. (New) A method for reducing transmission errors in a communication system comprising:  
determining that there is a periodic transient in the communication system;  
responsive to determining that there is a periodic transient, causing a data  
communications equipment to suspend data transmission; and  
after the occurrence of a subsequent transient, causing the data communications  
equipment to resume data transmission.

64. (New) The method of claim 63, further comprising measuring a length of time between  
consecutive transient events corresponding to the periodic transient.

65. (New) The method of claim 63, further comprising determining a cadence of transient events  
corresponding to the period transient.

66. (New) The method of claim 65, further comprising revising a cadence estimate for transient  
events corresponding to the periodic transient.

67. (New) A method for reducing transmission errors in a communication system comprising:  
determining that there is a periodic transient in the communication system;  
responsive to determining that there is a periodic transient, causing a data  
communications equipment to suspend data transmission; and  
after the lapse of a predetermined length of time, causing the data communications  
equipment to resume data transmission.

68. (New) The method of claim 67, further comprising measuring a length of time between  
consecutive transient events corresponding to the periodic transient.

69. (New) The method of claim 67, further comprising determining a cadence of transient events  
corresponding to the period transient.



70. (New) The method of claim 69, further comprising revising a cadence estimate for transient events corresponding to the periodic transient.

71. (New) A method for reducing transmission errors in a communication system, the method comprising:

determining that there is a periodic transient in the communication system;  
responsive to determining that there is a periodic transient, causing a data communications equipment to suspend data transmission; and  
after failing to detect a transient for a predetermined length of time, causing the data communications equipment to resume data transmission.

72. (New) The method of claim 71, further comprising measuring a length of time between consecutive transient events corresponding to the periodic transient.

73. (New) The method of claim 71, further comprising determining a cadence of transient events corresponding to the periodic transient.

74. (New) The method of claim 73, further comprising revising a cadence estimate for transient events corresponding to the periodic transient.